

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior revisions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An insertable temperature probe device for use in measuring temperature of fluid in a conduit, said probe device including:
 - a temperature sensor device with a sensing element, a portion of the sensor device is adapted to transmit a signal indicative of the temperature of fluid in a conduit;
 - a carrier for insertion into a flow stream in the conduit, at least a portion of the sensor device carried by the carrier and is removably mounted within the carrier ~~and sealed thereto said carrier being selectively movable between extended and retracted positions when the probe device is mounted to the conduit,~~ the sensing element is contained within the carrier;
 - a seal engaging an outer perimeter of the sensor device and an inside perimeter of the carrier to seal the carrier to the sensor device preventing flow of fluid between the carrier and sensor device;
 - at least one member associated with the carrier to limit the selective movement of the carrier;
 - a connector operably associated with the carrier for associating the carrier with means to selectively move the carrier between extended and retracted positions upon command when the probe device is mounted to a conduit;

means for mounting the probe device on the conduit through which a fluid flows;
and

a flow director carried by the carrier and operable to direct fluid outside the carrier to flow directly onto at least one of the sensing element and sensor device.

2. (Original) A probe device as set forth in claim 1 wherein the sensing element is completely within a portion of the carrier.

3. (Original) A probe device as set forth in claim 2 wherein the sensing element includes a thermocouple.

4. (Original) A probe device as set forth in claim 1 wherein the carrier includes a rod with a tubular sidewall defining a bore, said sensing element is positioned within the bore and has a fluid flow path formed therearound by an interior surface of the tubular side wall, said flow director includes a first opening in said sidewall and opens into the bore for directing a portion of the fluid flow from a main flow stream of fluid for flow around a portion of at least one of the sensor device and the sensing element.

5. (Original) A probe device as set forth in claim 4 wherein the first opening is positioned on the rod to face generally upstream in the conduit.

6. (Original) A probe device as set forth in claim 5 includes a second opening in the sidewall of the rod generally opposite the first opening and opens into the bore, said second opening to face generally downstream in the conduit.

7. (Original) A probe device as set forth in claim 6 wherein the first and second

Amendment A
Application No. 10/710,449
Amendment Dated February 10, 2005
Reply to Office Action of November 15, 2004
Attorney Docket No.: 716919.78

openings are generally in line and aligned generally in the direction of flow of fluid in the conduit.

8. (Original) A probe device as set forth in claim 4 wherein the sensing element includes a temperature sensor.

9. (New) A probe device as set forth in Claim 1 including a selectively movable piston cylinder connected to the connector and operable to effect the movement of the carrier between the extended and retracted positions.